

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: Jari SYRJARINNE

FILING DATE: Herewith

ART UNIT:

TITLE: A METHOD FOR PERFORMING LOCATION DETERMINATION AND
AN ELECTRONIC DEVICE

ATTORNEY DOCKET NO.: 460-010224-US(PAR)

The Commissioner of Patents and Trademarks

Washington, D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

Please amend the above-identified, enclosed patent application as follows:

IN THE CLAIMS

Please amend Claims 4, 5, 6, 7, 8, 13, 14, 15, 16 and 17 as rewritten below:

4. A method according to claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least an initial synchronization part (preamble, P), **characterized** in that the preamble (P) is searched from the analysis signal in the method.

5. A method according to claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least time data (TOW), **characterized** in that said time information (TOW) is searched from the analysis signal in the method.

6. A method according to claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5)

includes at least identification information (ID), **characterized** in that said identification information (ID) is searched from the analysis signal in the method.

7. A method according to claim 1, in which the information to be transmitted includes at least ephemeris data, **characterized** in that said ephemeris data is used in the method for determining the location of the receiver.

8. A method according to claim 1, **characterized** in that the information to be modulated in the method is binary information, and thus the information to be modulated consists of a number of information bits, each of which has either the first or the second binary value.

13. A receiver (MS) according to claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least an initial synchronization part (preamble, P), **characterized** in that said comparison means comprise means (3, 4) for searching said preamble (P) from the analysis signal.

14. A receiver (MS) according to claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least time data (TOW), **characterized** in that said comparison means comprise means (3, 4) for searching said time data (TOW) from the analysis signal

15. A receiver (MS) according to claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least identification information (ID), **characterized** in that said comparison means comprise means (3, 4) for searching said identification information (ID) from the analysis signal.

16. A receiver (MS) according to claim 10, in which the information to be transmitted includes at least ephemeris data, **characterized** in that the receiver also comprises means (3, 4, 7, 8) for using said ephemeris data for determining the location of the receiver (MS)

17. A receiver (MS) according to claim 10, **characterized** in that the information to be modulated is binary information, and thus the information to be modulated consists of a number of information bits, each of which has either the first or the second binary value.

REMARKS

In accordance with 37 C.F.R. §1.121 (as amended on 11/7/2000) the rewritten claim(s) above are shown on separate page(s) marked up to show all the changes relative to the previous version of that section.

Respectfully submitted,



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23 March 01

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Application entitled: A METHOD FOR PERFORMING LOCATION DETERMINATION AND AN ELECTRONIC DEVICE

MARKED UP CLAIM(S)

4. A method according to any one of the claims 1, 2 or 3claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least an initial synchronization part (preamble, P), **characterized** in that the preamble (P) is searched from the analysis signal in the method.

5. A method according to any one of the claims 1 to 4claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least time data (TOW), **characterized** in that said time information (TOW) is searched from the analysis signal in the method.

6. A method according to any one of the claims 1 to 5claim 1, in which the information to be transmitted is sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least identification information (ID), **characterized** in that said identification information (ID) is searched from the analysis signal in the method.

7. A method according to any one of the claims 1 to 6claim 1, in which the information to be transmitted includes at least ephemeris data, **characterized** in that said ephemeris data is used in the method for determining the location of the receiver.

8. A method according to any one of the claims 1 to 7claim 1, **characterized** in that the information to be modulated in the method is binary information, and thus the information to be modulated consists of a number of information bits, each of which has either the first or the second binary value.

13 A receiver (MS) according to any one of the claims 10, 11 or 12claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least an initial synchronization part (preamble, P), **characterized** in that said comparison means comprise means (3, 4) for searching said preamble (P) from the analysis signal.

14. A receiver (MS) according to any one of the claims 10 to 13claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least time data (TOW), **characterized** in that said comparison means comprise means (3, 4) for searching said time data (TOW) from the analysis signal.

15. A receiver (MS) according to any one of the claims 10 to 14claim 10, in which the information to be transmitted has been sent in one or more data frames (SF1—SF5), and at least one data frame (SF1—SF5) includes at least identification

information (ID), **characterized** in that said comparison means comprise means (3, 4) for searching said identification information (ID) from the analysis signal.

16. A receiver (MS) according to any one of the claims 10 to 15 ~~claim 10~~, in which the information to be transmitted includes at least ephemeris data, **characterized** in that the receiver also comprises means (3, 4, 7, 8) for using said ephemeris data for determining the location of the receiver (MS).

17. A receiver (MS) according to any one of the claims 10 to 16 ~~claim 10~~, **characterized** in that the information to be modulated is binary information, and thus the information to be modulated consists of a number of information bits, each of which has either the first or the second binary value.